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May 5, 1964

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A feview of the [REDACTED] contracts and proposals.

1. [REDACTED]

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Work on this contract is complete. The machine was received back from March AFB by [REDACTED] where it was undergoing a series of tests. This is the machine to be used in the investigative program on processing factors. The contract is not closed yet. There is to be a negotiation for the closing of the contract. The negotiation was postponed until a contract audit was performed. [REDACTED] has received no word regarding any action on the audit. They are very anxious to have the audit performed and get the contract closed. If there is anything they can do to speed up action, they would like to do it. The machine is stored at the North end of the plant, adjacent to the area where the investigative program is to be performed.

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[REDACTED] is rearranging their facility to accomodate the investigative program. The area to be used is presently occupied by accounting. They have moved engineering to a new-building separate building and rearranged the vacated space to accomodate accounting.

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The pre-contract work by [REDACTED] to open up the North end of the plant for the proposed work means that they can start right to work on the contract as soon as it is received. The biggest delay will be delivery of the clean room. There doesn't seem to be any way they can get that on order until the contract is received.

2. 6261-16051-3. Film Dryer ABD/4.

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This contract is complete and closed out. When [REDACTED] made his acceptance inspection, he indicated that although the machine was acceptable there were a number of things that could be improved. [REDACTED] spend a couple of weeks on the machine. [REDACTED] simplified it and changed it quite a bit. [REDACTED] claims that it is working right and tracking properly although I have not seen it run since it was changed. Air recirculation can now be varied from 0 to 100%. The ABD/4 is being stored adjacent to the HTA-5 and is available for the investigative program.

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Variable Width Film Reader

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Since I was going to visit [REDACTED] John [REDACTED] suggested I come up a day early and also visit [REDACTED] in Berkeley. This was good timing because [REDACTED] had just finished a general purpose rear projection viewer and it was on display at their place.

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This new viewer was a crash program with them. They had designed and built it in less than 4 weeks in response to a SAC requirement. The viewer was excellently conceived and generally well executed. [REDACTED] indicated there were some details they were not satisfied with and would be improved. The cable routing was obviously incomplete and they said the adjustment of the condenser optics was not right. With an open gate we could observe some color fringing at the high magnifications. This was one of the best general purpose viewers I have seen.

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The variable width film viewer was on the assembly floor partially assembled. It was not being worked on and I suspect the new viewer crash program had soaked up all their manpower. [REDACTED] said they were waiting for delivery of condenser lenses which had to be installed and adjusted before they could proceed. It appeared as though all the major mechanical parts were on hand.

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The power supply for the 5 KW light source is in a separate cabinet. It was line noise from this power supply which was giving them trouble with the [REDACTED] counter. This has been corrected now, although they did not go into details.

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Probably the only draw back of any significance to the [REDACTED] machines is that there must be access to the rear of the machines for loading film rolls. My personal opinion is that the reduction in the number of mirrors which this makes possible, more than offsets this drawback.

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④ File, Spectral Intelligence Extraction Techniques (Proposal)

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On my last visit to [redacted] with [redacted] and [redacted] we discussed [redacted] work on Spectral Intelligence Techniques. These are the only people that I know of that seem to have any ideas regarding the exploitation of the spectrazonal collection techniques. They feel they can do better with three broad spectral zones (or perhaps just as well) than with a large number of very narrow zones. They have had a long term interest in spectrznal work and in fact claim that their Mr. [redacted]

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[redacted] originated the concepts and that they made a proposal for the work which later turned up at [redacted] I would suspect this was a coincidence and they did not know their competition.

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At any rate, based on their in-house studies, they made a proposal to [redacted] for laboratory and study work on Spectral Intelligence Extraction Techniques. They thought [redacted] was going to support this program but for some reason, [redacted] decided not to. [redacted] thinks that perhaps the Rome people did not have a complete understanding of what the program was trying to do. I told [redacted] that if he would send me a copy of the proposal, I would send it on to [redacted] to see if he would be interested in supporting it.

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After reading the proposal, I can see why [redacted] may not have understood it. The prose is very obscure. On page 2-7 they finally get around to describing their technique. The next few pages and illustrations tell what it is all about. It takes some patience to wade through the whole thing.

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Personally, I think some exploratory studies of exploitation techniques of spectrazonal material ^{are} needed. If the enclosed proposal is not what you want then a more directed program should be prepared. I think that the goal should be to develop techniques which require that a minimum modification be required of present collection systems. Perhaps only different filters for the stereo pairs obtained from present general purpose collection systems.

Declass Review by NIMA / DoD

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